

ABSTRACT

An object of the present invention is to provide a method for reducing a chromium-containing material at a high chromium reduction degree. In the method of the present invention, a mixture of a feedstock containing chromium oxide and a carbonaceous reductant is heated and reduced by radiation heating in a moving hearth furnace. The average rate of raising the temperature of the mixture in the reduction is preferably 13.6°C/s or higher in the period from the initiation of the radiation heating of the mixture until the mixture reaches $1,114^{\circ}\text{C}$.